

## EPODOC / EPO

PN - JP62118883 A 19870530  
 TI - PRODUCTION OF LIPASE  
 FI - C12N1/148B ; C12N9/20 ; C12R1/66 ; C12R1/785  
 PA - KANEGAFUCHI CHEMICAL IND  
 IN - NAKAJIMA TOSHIMITSU; SHOTANI TAKENAGA  
 AP - JP19850257281 19851115  
 PR - JP19850257281 19851115  
 DT - I

## WPI / DERWENT

AN - 1987-189052 [27]  
 TI - Lipase prepn. by microorganism culture - uses substrate with low amino acid concn.  
 AB - J62118883 The method to prepare lipase by culturing the microbe increases the lipase productivity of the microbe by culturing with substrate consisting mainly of (a) amino acids or (b) amino acids and peptides, so that the amino acid content in the culture medium might be kept below prescribed low concn.  
 - Microbes belonging to Rhizopus, Aspergillus and Mucor, can be used. It is desirable to control the amino acid concn in culture medium by measuring the ammonium ion concn using ammonium electrode to detect the consumption of amino acids and adding corresp amt of amino acids in culture medium.  
 - USE/ADVANTAGE - Amino acids other than leudne, phenylalanine, lysine and arginine inhibit the prodn of lipase at above 1000 ppm concn and partic glutamic add, proline, glycine, alanine and aspartic add inhibit the prodn of lipase at above 500 ppm concn. By controlling the amino add concn., the prodn of lipase by microbes can be increased without inhibition. The prep'd lipase shows partic high activity for the reactions in non-aq system such as ester-exchanging reaction.(0/4)  
 IW - LIPASE PREPARATION MICROORGANISM CULTURE SUBSTRATE LOW AMINO ACID CONCENTRATE  
 PN - JP62118883 A 19870530 DW198727 006pp  
 - JP3028190B @ 19910418 DW199120 000pp  
 IC - C12N1/14 ; C12N9/20 ; C12R1/66  
 MC - D05-C03C  
 DC - D16  
 PA - (KANF) KANEGAFUCHI CHEM KK  
 AP - JP19850257281 19851115; JP19850257281 19851115  
 PR - JP19850257281 19851115

## PAJ / JPO

PN - JP62118883 A 19870530  
 TI - PRODUCTION OF LIPASE  
 AB - PURPOSE: To enhance productivity of lipase regardless of the kind of an organic nitrogen source, by adding a substrate consisting essentially of amino add or amino add and peptide to a culture medium and cultivating a microorganism while keeping the amino add concentration in the culture fluid at a low value.  
 - CONSTITUTION: A substrate consisting essentially of an amino acid or amino add and a peptide is added to a culture medium for a microorganism capable of producing lipase to carry out cultivation while keeping the amino add concentration in the culture fluid at a low value. A microorganism belonging to the genus Rhizopus, Aspergillus or Mucor is used as the microorganisms capable of producing lipase. The substrate to be added contains preferably  $\geq 40\%$ , more preferably  $\geq 60\%$  amino add or amino acid and peptide and the amount of a carbohydrate, saccharide, organic acid, etc., in the substrate to be a carbon source is  $\leq 10\%$ .  
 I - C12N9/20  
 C - C12N9/20 C12R1/66  
 - C12N9/20 C12R1/785  
 - C12N1/14  
 - KANEGAFUCHI CHEM IND CO LTD  
 IN - NAKAJIMA TOSHIMITSU; others: 01  
 ABD - 19871029  
 ABV - 011332  
 GR - C455  
 AP - JP19850257281 19851115

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